

NB

line 34, after "between the" insert --second--.

Page 12, line 6, change "-" to --through--;

NB

line 8, change "earthing" to --grounding--;

NB

line 16, after "unit" delete --,--;

NB

line 18, after "18" insert --,--;

NB

line 27, change "earthed" to --grounded--;

NB

line 29, after "conductive" insert --material--.

IN THE CLAIMS

Please cancel without prejudice or disclaimer Claims 1-18.

Please add new Claims 19-38 as follows:

--19. An insulated conductor for a high-voltage winding in an electric machine, comprising:

one or more strands;

an inner conductive layer that surrounds said one or more strands;

an insulating layer that surrounds ^{and contacts} said inner conductive layer; and

an outer ^{must} conductive layer that surrounds said insulating layer, wherein:

a resistivity of the outer ^{must} conductive layer being in an inclusive range of 10 through 500 ohm*cm.

20. An insulated conductor as claimed in claim 19, wherein:

the outer ^{must} conductive layer is grounded at at least two different points.

21 An insulated conductor as claimed in claim 20, wherein:

said outer ^{most} conductive layer having a resistivity being lower than that of the insulating layer but higher than that of a material that comprises said one or more strands.

22. An insulated conductor as claimed in claim 19, wherein:

the resistivity of the outer ^{most} conductive layer being in an inclusive range of 50 through 100 ohm*cm.

23. An insulated conductor as claimed in claim 19, wherein:

a resistance per axial length unit of the outer ^{most} conductive layer being in an inclusive range of 5 through 50000 ohm/m.

24. An insulated conductor as claimed in claim 19, wherein:

a resistance per axial length unit of the outer ^{most} conductive layer being in an inclusive range of 500 through 25000 ohm/m.

25. An insulated conductor as claimed in claim 19, wherein:

a resistance per axial length unit of the outer ^{most} conductive layer being in an inclusive range of 2500 through 5000 ohm/m.

26. An insulated conductor as claimed in claim 19, wherein:

said outer ^{most} ~~conductor~~ ^{Conductive layer} including a base polymer and a carbon black,

^{said} resistivity of the outer ^{most} conductive layer being set by

a type of the base polymer,
a type of the carbon black, and
a proportion of the carbon black relative to an entire formulation of said outer
conductive layer.

27. An insulated conductor as claimed in claim 26, wherein:
the base polymer comprises an ethylene butyl acrylate copolymer of EP-rubber.

28. An insulated conductor as claimed in claim 25, wherein:
the outer ^{most} conductive layer being cross-linked by peroxide.

29. An insulated conductor as claimed in claim 26, wherein:
the outer ^{most} conductive layer being cross-linked by peroxide.

30. An insulated conductor as claimed in claim 19, wherein:
an adhesion between the insulating layer and the outer conductive layer being of a
same order of magnitude as an intrinsic strength of a material that forms said insulating layer.

31. An insulated conductor as claimed in claim 19, wherein:
the inner conductive layer, the insulating layer and the outer ^{most} conductive layer are
extruded on the one or more strands.

32. An insulated conductor as claimed in claim 30, wherein:

C- the inner conductive layer, the insulating layer and the outer ^{most} conductive layer are applied through extrusion through a multilayer head.

33. An insulated conductor as claimed in claim 19, wherein:

the insulating layer being a crosslinked polyethylene, XLPE.

34. An insulated conductor as claimed in claim 19, wherein:

the insulating layer being at least one of ethylene propylene rubber and silicone rubber.

35. An insulated conductor as claimed in claim 19 wherein:

the insulating layer being a thermoplastic material from a set of LDPE, HDPE, PP, PB, and PMP.

36. An electric machine comprising:

an insulated conductor for a high-voltage winding, having

one or more strands,

an inner conductive layer that surrounds said one or more strands,

an insulating layer that surrounds said inner conductive layer, and

an outer ^{most} conductive layer that surrounds ^{and contacts} said insulating layer, wherein:

a resistivity of the outer conductive layer being in an inclusive range of 10 through 500 ohm*cm. .

37. A rotating electrical machine comprising:

an insulated conductor for a high-voltage winding, having

one or more strands,

an inner conductive layer that surrounds said one or more strands,

an insulating layer that surrounds said inner conductive layer, and

an outer ^{most} conductive layer that surrounds ^{and contacts} said insulating layer, wherein:

a resistivity of the outer conductive layer being in an inclusive range of 10 through 500 ohm*cm.

38. An insulated conductor for a high-voltage winding in an electric machine, comprising:

means for conducting an electrical current in said high-voltage winding,

means for electrically insulating said means for conducting, said means for electrically insulating having,

means for creating a first equipotential surface around said means for conducting,

means for creating a second equipotential surface around said means for creating the first equipotential surface, and

means for separating said first equipotential surface from said second equipotential surface; and

means for setting a resistivity of the means for creating a second equipotential surface to avoid glow discharge and limit eddy current losses.--

IN THE ABSTRACT OF THE DISCLOSURE

After page 17, please add the following abstract: